

Serie
Type

INV BS

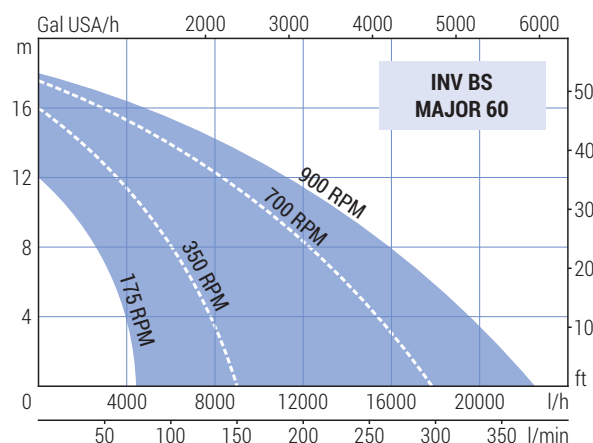
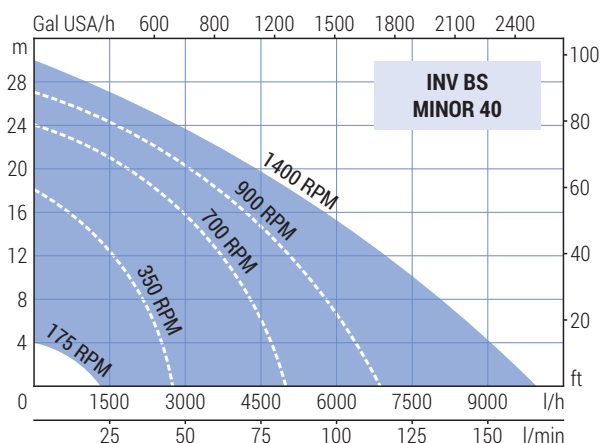
Pompe monoblocco con inverter con comandi bordo quadro
Mono-block pumps with frequency converter and controls on main panel



INV BS MINOR 40
INV BS MAJOR 60

motore servoventilato, inverter 4 kW
senza stop a secco, con carrello
servo fan motor, 4kW frequency converter
without dry running protection, on trolley

Tipo Type	Alimentazione Feeding	kW	Giri/min RPM	H = Prevalenza (metri) / Head (meters)										Portata (litri/ora) Q = Capacity (liters/hour)
				0	4	8	12	16	18	20	24	27	30	
INV BS MINOR 40	Trifase Three-phase 400V / 50Hz	1.5	min 175	1320	0									
			350	2750	2500	2100	1600	800	0					
			700	5000	4700	4300	3700	3000	2520	1800	0			
			900	6900	6200	5760	5040	4200	3660	3200	1800	0		
			max 1400	10000	9000	8000	6900	5500	4900	4400	2600	1700	0	
INV BS MAJOR 60	Trifase Three-phase 400V / 50Hz	1.85	min 175	4320	3840	2800	0							
			350	9000	7800	6000	3700	0						
			700	18000	15000	12000	8400	2500	0					
			max 900	22500	19560	15000	11220	3000	0					

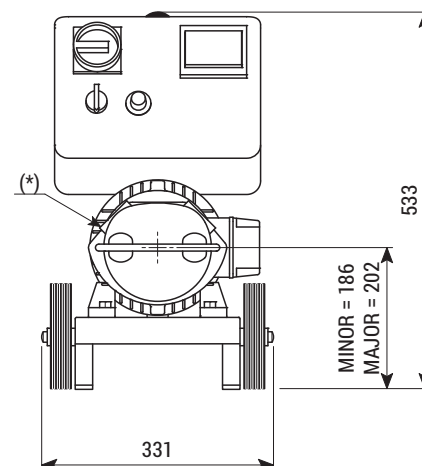
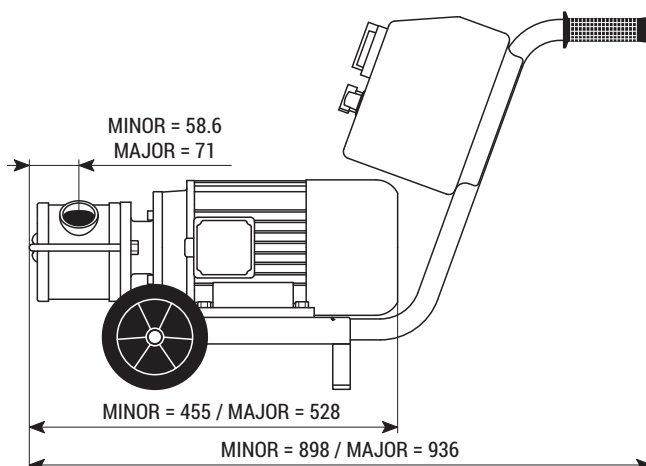


INV BS MINOR 40

Peso-Weight 31.0 kg

INV BS MAJOR 60

Peso-Weight 43.5 kg



* raccordi disponibili p.21 / available pipe fittings p.21

Tabella di corrosione giranti *Impeller corrosion table*

Materiale Material	 Nitrile Nitrile	 Neoprene Neoprene rubber	 EPDM EPDM	 Gomma naturale Natural rubber	 Silicone Silicon
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Le temperature riportate tra parentesi sono da considerarsi come temperature massime di utilizzo. La temperatura di 20° C rappresenta all'incirca la temperatura ambiente.

Il termine "Variabile" indica che all'interno della stessa famiglia di polimeri si possono avere comportamenti diversi in funzione del tipo di polimero, della concentrazione del prodotto e della temperatura di utilizzo.

Temperatures reported in parentheses must be considered the highest temperatures that can be used. The temperature of 20° C corresponds to an average room temperature.

The term "Variable" means that within the same family of polymers there can be different behaviours according to the kind of polymer, the concentration of the product and the temperature at which it is used.

Caratteristica Characteristic	A Ottimo Excellent	B Discreto/Buono Fair/Good	C Sconsigliato/Scarso Not advisable/Poor	V Variabile Variable	Nd Non disponibile Not available
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Prodotto	NBR	EPDM	CR	NR	VMQ
Acetato di etile	C	A (55° C) - C (70° C)	C	C	B (20° C)
Aceto	B (20° C) - V (60° C)	A (60°-90° C)	B (90° C)	B (20° C)	A (20° C)
Acido Acetico (30%)	B (20° C)	A	B (20° C)	B (20° C)	Nd
Acido Borico	A (60° C) - B (90° C)	A (60° C) - B (90° C)	A (70° C) - B (90° C)	A (20° C) - B (85° C)	A (20° C)
Acido Bromico (40%)	C	A (90° C)	V	B (20° C)	C
Acido Cianidrico	B (60° C)	A (60° C)	V	Nd	B (20° C)
Acido Citrico	A (70° C) - B (80° C)	A	A	A (20° C)	A (20° C)
Acido Cloridrico concentrato	C	C	C	V	C
Acido Cloroacetico	C	B (70°-90° C)	A (20° C) - C (40° C)	V	V
Acido Cromico	C	B	V	V	V
Acido Fluoridrico (50%)	C	B (60° C)	V	C (20° C)	V
Acido Fluoridrico concentrato	C	C	C	C	C
Acido Fluoroborico	A (60° C) - B (85° C)	A (60° C) - B (80° C)	A (60° C) - B (85° C)	A (20° C) - B (65° C)	A (20° C)
Acido Formico	V	A (90° C)	V	B (20° C)	B (20° C)
Acido Fosforico (85%)	C	A (80° C)	A (40° C)	B (65° C)	C
Acido Lattico concentrato	A (20° C)	A (60° C)	A (20° C) - B (60° C) C (80° C)	Nd	Nd
Acido Nitrico (10%)	C	A (40° C) - C (80° C)	C (40° C)	C	B (20° C)
Acido Nitrico (70%)	Nd	C	C	C	C
Acido Ossalico concentrato	B (60° C)	A (100° C)	B (60° C)	B (20° C)	B (20° C)
Acido Palmitico	A (70° C)	B (20° C)	B (20-70° C)	B (20° C)	C
Acido Picrico	C	A (20° C)	B (20° C)	C	C
Acido Picrico (10%)	B (70° C)	B (90° C)	A (20° C) - C (40° C)	B (20° C)	C

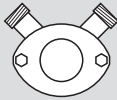
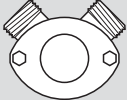
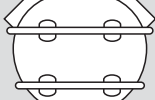
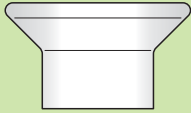
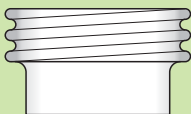
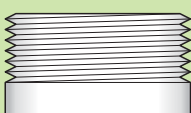
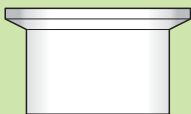
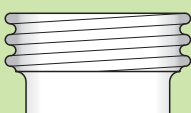
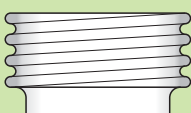
Prodotto	NBR	EPDM	CR	NR	VMQ
Acido Solforico (50%)	A (20° C) - C (80° C)	B (60-80° C)	B (70° C)	B (26° C)	V
Acido Solforico (80%)	B (40° C)-C (60-80° C)	A (60° C) - C (80° C)	C	C	C
Acido Stearico	A (80° C)	B (60° C)	B (60-70° C)	V	B (20° C)
Acqua	A (80° C)	A (100° C)	B (80° C)	A (20° C) - B (80° C)	B (80° C)
Alcol Benzilico	C	B (40° C) - C (60° C)	V	C	Nd
Alcol Etilico	A (60° C) - B (85° C)	A (90° C)	A (70° C) - B (80° C)	A (20° C) - B (65° C)	B (20° C)
Alcol Metilico	B (65° C)	A (70° C) - B (80° C)	A (60° C) - B (80° C)	B (37° C)	A (70° C)
Alcol Propilico	B (80° C)	B (90° C)	A (60° C) - B (90° C)	A (20° C) - B (65° C)	A (20° C)
Ammonio Idrato conc. (38%)	A (80° C)	Nd	A (90° C)	A (65° C)	Nd
Anidride Solforosa	C	C (20° C)	C (20° C)	C	A (20° C)
Anilina	C	A (90° C)	C	C	B (20° C)
Benzina	A (80° C)	C	C	C	C
Birra	A (60° C) - B (80° C)	A (60° C) - B (80° C)	A (60° C)	A (20° C)	A (20° C)
Bromo gas	C	C	C	C	C
Burro	A (60° C)	A (60° C)	B (20° C) - C (60° C)	C	B (20° C)
Butadiene	V	V	V	C	C
Butano	A (90° C) - B (80° C)	C	A (60° C)	C	C
Calcio Idrato	A (20° C) - B (90° C)	A (20° C)	A (20° C) - B (90° C)	A (20° C) - B (65° C)	A (20° C)
Calcio Ipoclorito	C	A (120° C)	C	C	B (20° C)
Cherosene	A (80° C)	C	B (20° C)	C	C
Cloro Umido	C	V	C	C	C
Cloroformio	C	C	C	C	C
Gelatina	A (70° C)	A (80° C)	A (60° C) - B (80° C)	A (20° C) - B (65° C)	A (20° C)
Glicerina	A (80° C)	A (80° C) - B (90° C)	A (70° C)	A (20° C) - B (65° C)	A (20° C)
Glucosio	A (70° C)	A (80° C)	A (60° C)	A (20° C) - B (48° C)	A (20° C)
Iodio	B (60° C) A (20° C) 6.5%	B (70° C) A (20° C) 6.5%	C	C	C
Latte	A (60° C)	A (100° C)	A (60° C)	A (20° C) - B (37° C)	A (20° C)
Magnesio Cloruro	A (70° C) - B (80° C)	A (80° C) - B (100° C)	A (80° C) - B (90° C)	A (20° C) - B (85° C)	A (20° C)
Magnesio Solfato	A (80° C) - B (100° C)	A (80° C) - B (100° C)	A (80° C) - B (90° C)	B (85° C)	A (20° C)
Mercurio	A (60° C)	A (60° C)	A (60° C)	A (20° C)	A (20° C)
Metiletilchetone	C	A (60° C) - B (90° C)	C	C	C
Nafta	A (80° C)	C	C	C	C
Olio di Anilina	C	B (20° C)	C	C	C
Olio di Cotone	A (70° C) - B (80° C)	A (20° C) - B (80° C)	B (65° C)	C	A (20° C)
Olio di fegato di merluzzo	A (20° C) - B (50° C)	A (20° C)	B (20° C)	C	B (20° C)
Olio di Granoturco	A (80° C)	V	B (20° C)	C	A (20° C)
Olio di Lino	A (80° C)	B (20° C)	B (80° C)	C	C
Olio di Oliva	A (80° C)	B (20° C)	V	C	V
Olio di Pino	B (80° C)	C	C	C	C
Olio di Ricino	A (70° C)	A (60° C)	A (70° C)	A (25° C)	A (20° C)
Olio di Soia	A (80° C)	V	B (20° C)	C	C
Olio Idraulico (esteri fosforici)	C	A (100° C)	C	C	V
Olio SAE n.10	A (80° C)	C	V	C	V
Olio Vegetale	A (70° C)	V	C (20° C)	C	A (20° C)
Paraffina	A (60° C)	C	B (20° C)	V	C
Percloroetilene	V	C	C	C	V
Sodio Cloruro	A (70° C)	B (90° C)	A (80° C)	A (65° C)	B

Prodotto	NBR	EPDM	CR	NR	VMQ
Sodio Idrato	B (65° C)	A (20° C)	B (90° C)	A (20° C) - B (65° C)	C (20° C)
Succo di frutta	A (60° C)	A (100° C)	A (60° C)	V	A (20° C)
Succo di pomodoro	A (60° C)	A (80° C)	A (60° C)	Nd	Nd
Toluolo	C	C	C	C	C
Tricloroetilene	C	C	C	C	C
Trietanolammia	C (20° C) 100% B (37° C) 80%	A (70° C)	A (70° C)	B (26° C)	C
Vino	A (90° C)	A (90° C)	A (90° C)	A (20° C) - B (65° C)	A (20° C)
Whisky	A (90° C)	A (90° C)	A (60° C) - C (90° C)	A (20° C) - B (65° C)	A (20° C)
Xilolo	C	C	C	C	C
Zolfo fuso 120° C	C	A (100° C)	A (20° C)	C (20° C)	A (20° C) - C (120° C)
Zucchero di canna	A (60° C) - B (90° C)	A (80° C)	A (20° C) - B (90° C)	A (20° C)	A (20° C)

Product	NBR	EPDM	CR	NR	VMQ
Acetic acid (30%)	B (20° C)	A	B (20° C)	B (20° C)	Nd
Ammonium hydroxide (38%)	A (80° C)	Nd	A (90° C)	A (65° C)	Nd
Aniline	C	A (90° C)	C	C	B (20° C)
Aniline oil	C	B (20° C)	C	C	C
Beer	A (60° C) - B (80° C)	A (60° C) - B (80° C)	A (60° C)	A (20° C)	A (20° C)
Benzyl alcohol	C	B (40° C) - C (60° C)	V	C	Nd
Boric acid	A (60° C) - B (90° C)	A (60° C) - B (90° C)	A (70° C) - B (90° C)	A (20° C) - B (85° C)	A (20° C)
Bromic acid (40%)	C	A (90° C)	V	B (20° C)	C
Butadiene	V	V	V	C	C
Butane	A (90° C) - B (80° C)	C	A (60° C)	C	C
Butter	A (60° C)	A (60° C)	B (20° C) - C (60° C)	C	B (20° C)
Calcium hydrate	A (90° C) - B (90° C)	A (20° C)	A (20° C) - B (90° C)	A (20° C) - B (65° C)	A (20° C)
Calcium hypochlorite	C	A (120° C)	C	C	B (20° C)
Cane sugar liquide	A (60° C) - B (90° C)	A (80° C)	A (20° C) - B (90° C)	A (20° C)	A (20° C)
Castor oil	A (70° C)	A (60° C)	A (70° C)	A (25° C)	A (20° C)
Chlorine (dump)	C	V	C	C	C
Chloroacetic acid	C	B (70°-90° C)	A (20° C) - C (40° C)	V	V
Chloroform	C	C	C	C	C
Chromic acid	C	B	V	V	V
Citric acid	A (70° C) - B (80° C)	A	A	A (20° C)	A (20° C)
Cod-liver oil	A (20° C) - B (50° C)	A (20° C)	B (20° C)	C	B (20° C)
Corn oil	A (80° C)	V	B (20° C)	C	A (20° C)
Cotton oil	A (70° C) - B (80° C)	A (20° C) - C (80° C)	B (65° C)	C	A (20° C)
Diesel oil	A (80° C)	C	C	C	C
Ethyl acetate	C	A (55° C) - C (70° C)	C	C	B (20° C)
Ethyl alcohol	A (60° C) - B (85° C)	A (90° C)	A (70° C) - B (80° C)	A (20° C) - B (65° C)	B (20° C)
Fluoboric acid	A (60° C) - B (85° C)	A (60° C) - B (80° C)	A (60° C) - B (85° C)	A (20° C) - B (65° C)	A (20° C)
Formic acid	V	A (90° C)	V	B (20° C)	B (20° C)
Fruit juices	A (60° C)	A (100° C)	A (60° C)	V	A (20° C)
Gelatine	A (70° C)	A (80° C)	A (60° C) - B (80° C)	A (20° C) - B (65° C)	A (20° C)
Glucose	A (70° C)	A (80° C)	A (60° C)	A (20° C) - B (48° C)	A (20° C)
Glycerine	A (80° C)	A (80° C) - B (90° C)	A (70° C)	A (20° C) - B (65° C)	A (20° C)
Hydraulic oil	C	A (100° C)	C	C	V

Product	NBR	EPDM	CR	NR	VMQ
Hydrochloric acid (conc.)	C	C	C	V	C
Hydrocyanic acid	B (60° C)	A (60° C)	V	Nd	B (20° C)
Hydrofluoric acid (50%)	C	B (60° C)	V	C (20° C)	V
Hydrofluoric acid (conc.)	C	C	C	C	C
Iodine	B (60° C) A (20° C) 6.5%	B (70° C) A (20° C) 6.5%	C	C	C
Kerosene	A (80° C)	C	B (20° C)	C	C
Lactic acid (conc.)	A (20° C)	A (60° C)	A (20° C) - B (60° C) C (80° C)	Nd	Nd
Linseed oil	A (80° C)	B (20° C)	B (20° C)	C	C
Magnesium chloride	A (70° C) - B (80° C)	A (80° C) - B (100° C)	A (80° C) - B (90° C)	A (20° C) - B (85° C)	A (20° C)
Magnesium sulphate	A (80° C) - B (100° C)	A (80° C) - B (100° C)	A (80° C) - B (90° C)	B (85° C)	A (20° C)
Mercury	A (60° C)	A (60° C)	A (60° C)	A (20° C)	A (20° C)
Methyl alcohol	B (65° C)	A (70° C) - B (80° C)	A (60° C) - B (80° C)	B (37° C)	A (70° C)
Methyl-ethyl-ketone	C	A (60° C) - B (90° C)	C	C	C
Milk	A (60° C)	A (100° C)	A (60° C)	A (20° C) - B (37° C)	A (20° C)
Nitric acid (10%)	C	A (40° C) - C (80° C)	C (40° C)	C	B (20° C)
Nitric acid (70%)	Nd	C	C	C	C
Olive oil	A (80° C)	B (20° C)	V	C	V
Oxalic acid (conc.)	B (60° C)	A (100° C)	B (60° C)	B (20° C)	B (20° C)
Palmitic acid	A (70° C)	B (20° C)	B (20-70° C)	B (20° C)	C
Paraffin	A (60° C)	C	B (20° C)	V	C
Perchloroethylen	V	C	C	C	V
Petrol	A (80° C)	C	C	C	C
Phosphoric acid (85%)	C	A (80° C)	A (40° C)	B (65° C)	C
Picric acid	C	A (20° C)	B (20° C)	C	C
Picric acid (10%)	B (70° C)	B (90° C)	A (20° C) - C (40° C)	B (20° C)	C
Pine oil	B (80° C)	C	C	C	C
Propylic alcohol	B (80° C)	B (90° C)	A (60° C) - B (90° C)	A (20° C) - B (65° C)	A (20° C)
SAE n.10 oil	A (80° C)	C	V	C	V
Sodium chloride	A (70° C)	B (90° C)	A (80° C)	A (65° C)	B
Sodium hydrate	B (65° C)	A (20° C)	B (90° C)	A (20° C) - B (65° C)	C (20° C)
Soybean oil	A (80° C)	V	B (20° C)	C	C
Stearic acid	A (80° C)	B (60° C)	B (60-70° C)	V	B (20° C)
Sulphur (fused 120° C)	C	A (100° C)	A (20° C)	C (20° C)	A (20° C) - C (120° C)
Sulphur dioxide	C	C (20° C)	C (20° C)	C	A (20° C)
Sulphuric acid (50%)	A (20° C) - C (80° C)	B (60-80° C)	B (70° C)	B (26° C)	V
Sulphuric acid (80%)	B (40° C)-C (60-80° C)	A (60° C) - C (80° C)	C	C	C
Toluol	C	C	C	C	C
Tomatoes juices	A (60° C)	A (80° C)	A (60° C)	Nd	Nd
Trichloroethylene	C	C	C	C	C
Triethanolamine	C (20° C) 100% B (37° C) 80%	A (70° C)	A (70° C)	B (26° C)	C
Vegetable oil	A (70° C)	V	C (20° C)	C	A (20° C)
Vinegar	B (20° C) - V (60° C)	A (60°-90° C)	B (90° C)	B (20° C)	A (20° C)
Water	A (80° C)	A (100° C)	B (80° C)	A (20° C) - B (80° C)	B (80° C)
Whisky	A (90° C)	A (90° C)	A (60° C) - C (90° C)	A (20° C) - B (65° C)	A (20° C)
Wine	A (90° C)	A (90° C)	A (90° C)	A (20° C) - B (65° C)	A (20° C)
Xylol	C	C	C	C	C

Raccordi Pipe fittings

		MINI	MIDEX	MINOR	MAJOR	MAXI
Tipo Type						
Garolla		<i>Non disponibile Not available</i>	Garolla 40	Garolla 40 Garolla 50	Garolla 50 Garolla 60 Garolla 70	Garolla 70 Garolla 80 Garolla 100
DIN 11851		DIN 20 DIN 25	DIN 32 DIN 40	DIN 40 DIN 50	DIN 50 DIN 60 DIN 65	DIN 65 DIN 80 DIN 100
BSP-M		BSP-M 3/4"	BSP-M 1"1/4	BSP-M 1"1/4 BSP-M 1"1/2	BSP-M 2"	BSP-M 2"1/2 BSP-M 3"
BSP-F		<i>Non disponibile Not available</i>	BSP-F 1"	BSP-F 1" BSP-F 1"1/4	BSP-F 1"1/2 BSP-F 2"	BSP-F 2"1/2 BSP-F 3"
Macon		<i>Non disponibile Not available</i>	Macon 40	Macon 40 Macon 50	Macon 40 Macon 50	Macon 70
Triclover		Triclover 1"	Triclover 1"1/2	Triclover 1"1/2	Triclover 2"	Triclover 3"
SMS		SMS 25	SMS 38	SMS 38	SMS 51	SMS 76
BSM (RJT)		BSM 1"	BSM 1"1/2	BSM 1"1/2	BSM 2" BSM 2"1/2	BSM 3"
Friederich		<i>Non disponibile Not available</i>	Friederich 40	Friederich 40	Friederich 40 Friederich 60	Friederich 60

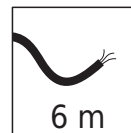
Quadri elettrici Control Panels



Impianto elettrico CE.
CE control panel.



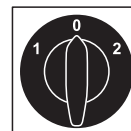
Conforme CE
CE compliance



Cavo di uscita 6 m
Exit cable 6 m



Conforme IP55
IP55 compliance



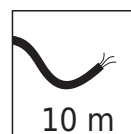
Interruttore/invertitore
Reverse switch



Impianto elettrico CE con derivazione supplementare 24V NC
per sensore di temperatura, pressostato, sensore di livello, ecc.
CE control panel with supplementary 24V NC shunt trip
for temperature sensor, pressure switch, level sensor, etc.



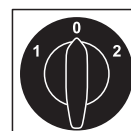
Conforme CE
CE compliance



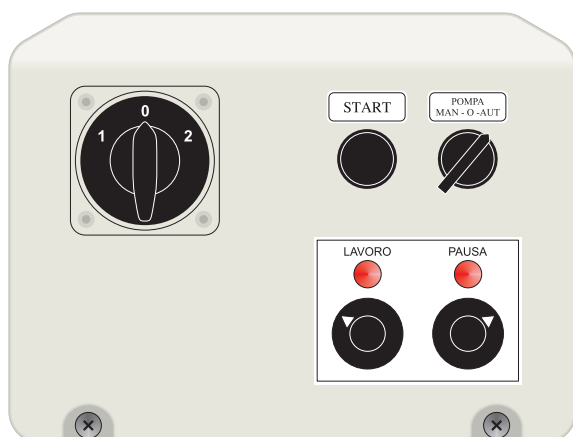
Cavo di uscita 10 m
Exit cable 10 m



Conforme IP55
IP55 compliance



Interruttore/invertitore
Reverse switch



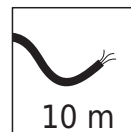
Impianto elettrico CE con temporizzatore con 2 selettori
12 posizioni per pausa e lavoro e con 2 range di temporizzazioni
disponibili (da specificare in caso di ordine):
tipo **LIV1** = lavoro 2-24 minuti, pausa 10-120 minuti;
tipo **LIV2** = lavoro 2-24 minuti, pausa 1-12 ore.
CE control panel with 2 selector switch timer, with 12 possible
selections each and with 2 time rate options (to be stated in
case of order):

LIV1 type = run 2-24 minutes, pause 10-120 minutes;

LIV2 type = run 2-24 minutes, pause 1-12 hours.



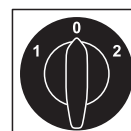
Conforme CE
CE compliance



Cavo di uscita 10 m
Exit cable 10 m

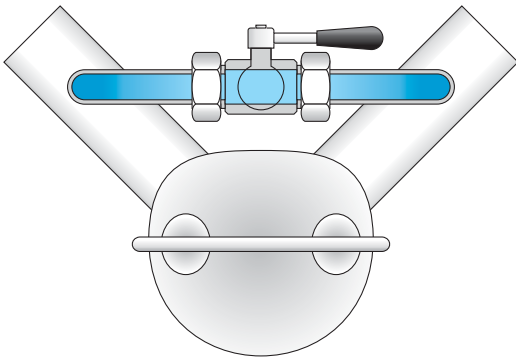


Conforme IP55
IP55 compliance

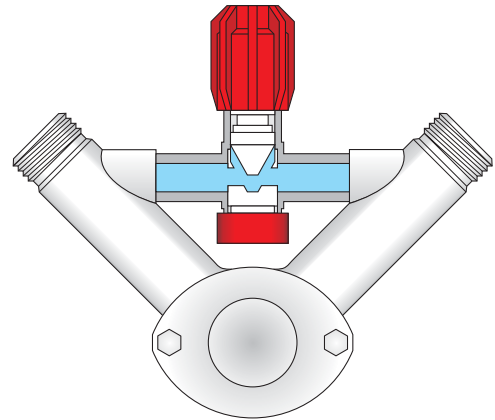


Interruttore/invertitore
Reverse switch

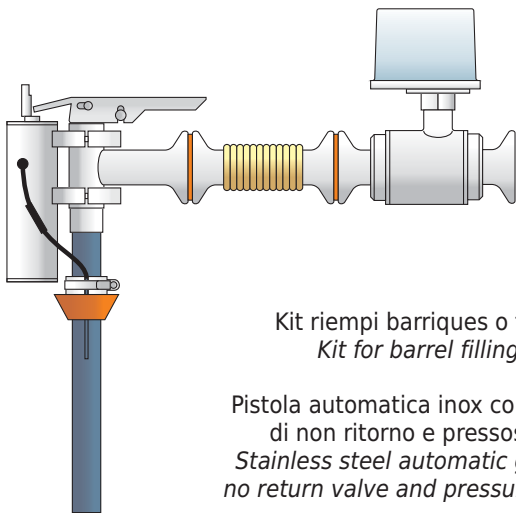
Accessori Accessories



By-pass con valvola a sfera per i modelli: Mini, Major, Maxi.
Ball bypass valve for pump types: Mini, Major, Maxi.



By-pass con valvola a molla per i modelli: Midex e Minor.
Spring bypass valve for pump types: Midex and Minor.



Kit riempi barriques o fusti.
Kit for barrel filling.

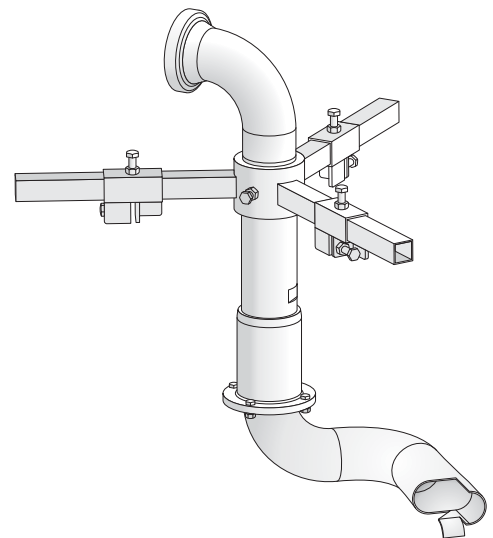
Pistola automatica inox con valvola di non ritorno e pressostato.
Stainless steel automatic gun with no return valve and pressure switch.

Il kit può essere utilizzato solo con quadro elettrico del tipo con derivazione supplementare 24V NC.

In caso di pompa con inverter quest'ultimo deve essere dotato di derivazione supplementare NC.

The kit must be used only with a control panel with a supplementary 24V NC shunt trip.

In case of pump driven by frequency converter, the last must be fitted with a supplementary NC trip.



Irroratore centrifugo serie IRR LIVERANI:
- sistema di fissaggio standard per chiusino da 400 mm
- a richiesta sistema di fissaggio per chiusini di dimensioni superiori

Centrifugal sprinkler LIVERANI IRR type:
- standard fastening system for 400 mm manways
- on request fastening system for larger manways.



Carenatura inox per elettropompe.
Inox cover for electric pumps.



A richiesta l'assemblaggio può essere effettuato con:

- Carrello inox
- Con ruote in Poliammide bianche
- Impianto elettrico con invertitore standard montato sul manico
- Uscite sanitarie (DIN, SMS, TRICLAMP, BSM/RJT)

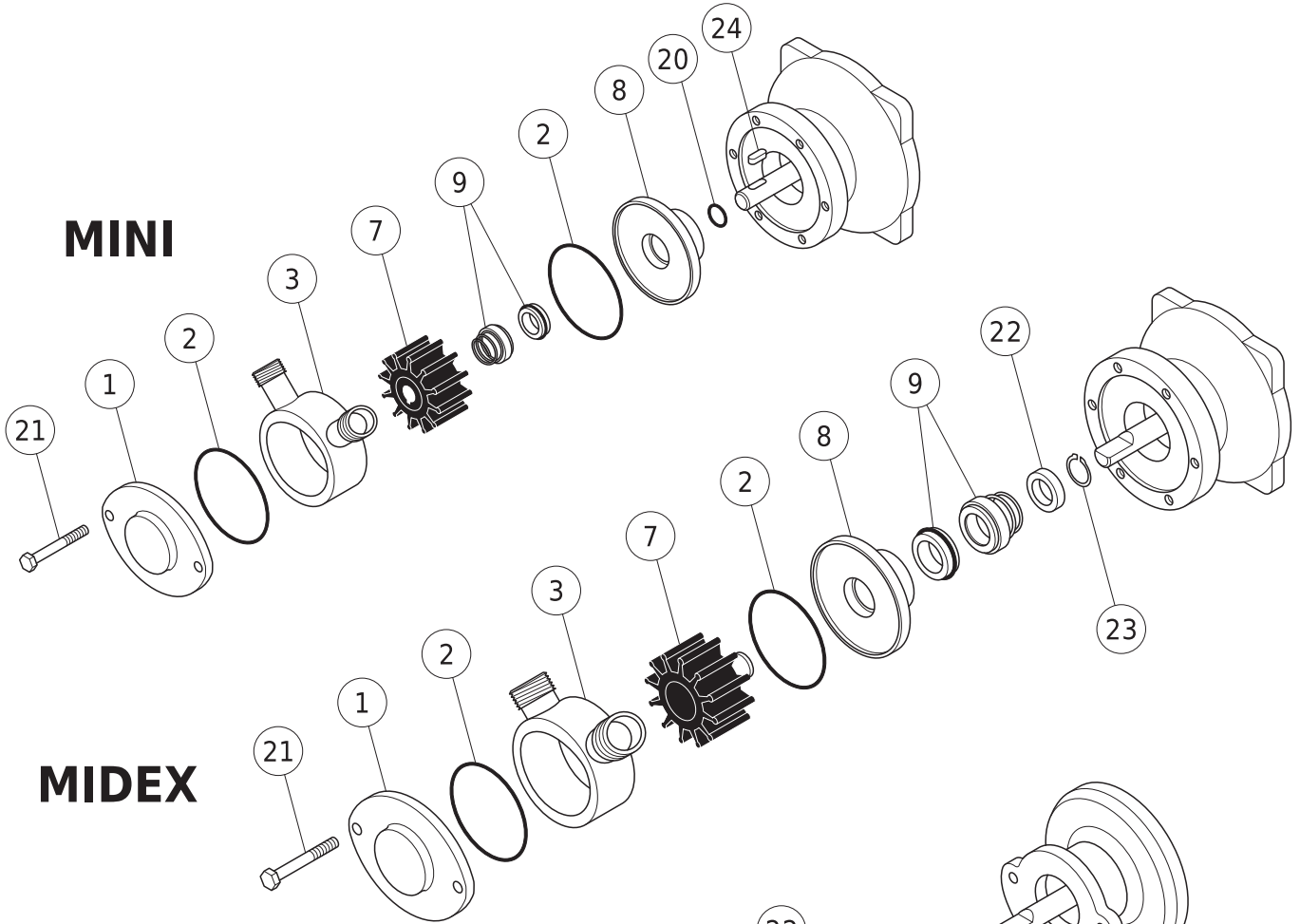
On request equipped with:

- Stainless steel trolley
- With Polyamide white wheels
- Standard control panel with reverser switch
- Sanitary inlet/outlet (DIN, SMS, TRICLAMP, BSM/RJT)

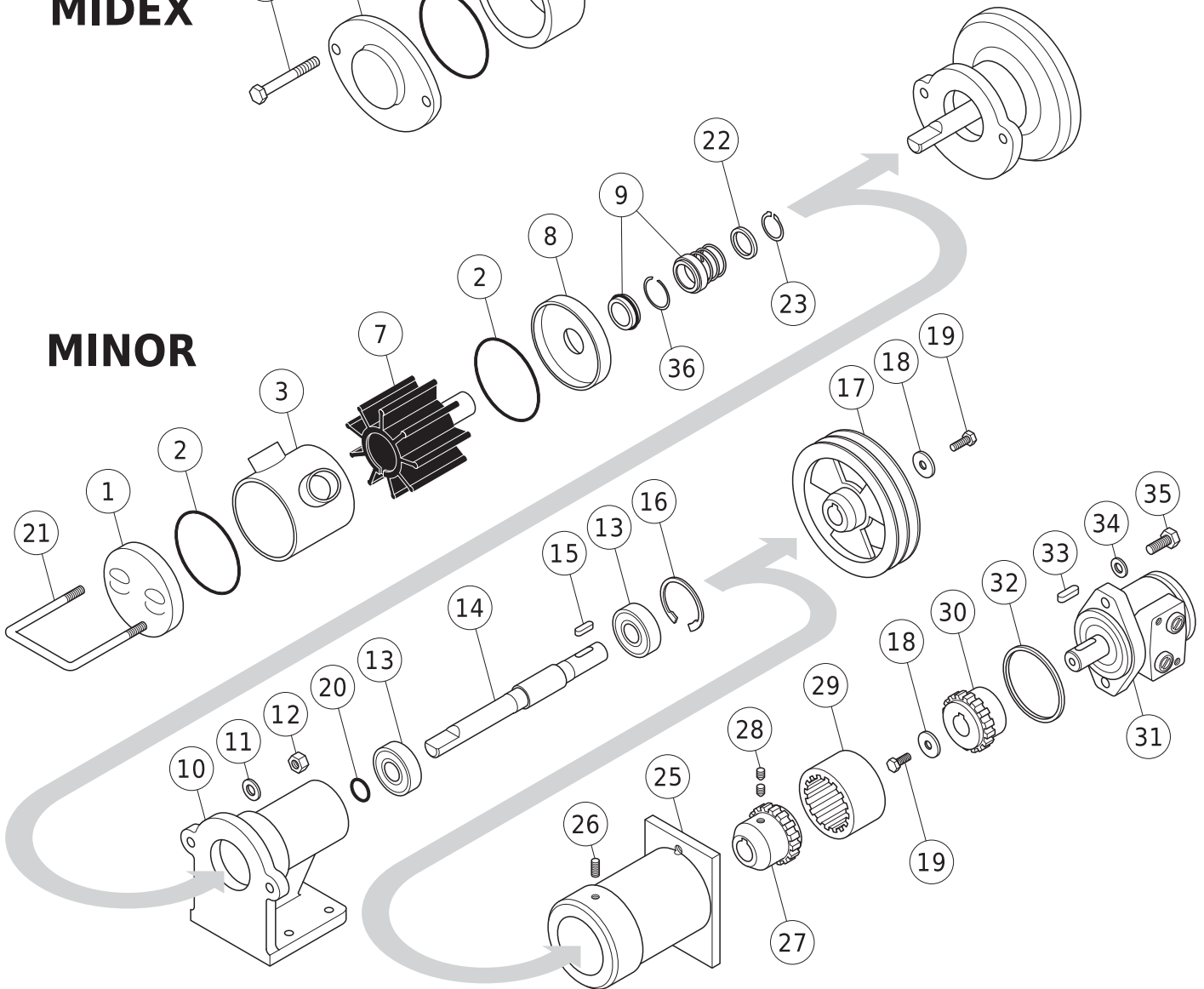
Componenti Spare parts

Pos.	Descrizione Description	Materiale Material	MINI	MIDEX	MINOR	MAJOR	MAXI
1	Culatta anteriore / Front cover	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
		Acciaio Inox AISI 316 / Stainless Steel AISI 316	●	●			
2	Anello OR culatta / O ring cover	Gomma NBR / Rubber (NBR)	●	●	●	●	●
3	Corpo pompa / Casing	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
		Acciaio Inox AISI 316 / Stainless Steel AISI 316	●	●			
7	Girante / Impeller	Gomma Naturale (NR) / Natural Rubber (NR)	●	●	●	●	●
		Neoprene (CR) / Neoprene Rubber (CR)	●	●	●	●	●
		Nitrile (NBR) / Nitrile (NBR)	●	●	●	●	●
		EPDM / EPDM	●	●	●	●	●
		Silicone (VMQ) / Silicon (VMQ)			●	●	●
8	Culatta posteriore / Rear cover	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
		Acciaio Inox AISI 316 / Stainless Steel AISI 316	●	●			
9	Tenuta meccanica / Mechanical gasket	Inox-Grafite-NBR / Stainless Steel-Graphite-NBR	●	●	●	●	●
		Carburo di Tungsteno-NBR / Tungsten Carbide-NBR	●	●	●	●	●
		Carburo di Tungsteno-Viton / Tungsten Carbide-Viton	●	●	●	●	●
10	Supporto tipo S/P / Support S/P type	Alluminio / Aluminium			●	●	●
	Supporto tipo MID / Support MID type	Alluminio / Aluminium			●	●	●
11	Rondella / Washer	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
12	Dado / Nut	Ottone cromato / Chromate brass			●	●	●
13	Cuscinetto / Ball bearing	Commerciale / Commercial			●	●	●
14	Albero / Shaft	Acciaio Inox AISI 420 / Stainless Steel AISI 420			●	●	●
15	Chiavetta / Flat key	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
16	Anello Seeger / Seeger ring	Acciaio / Steel			●	●	●
17	Puleggia / Pulley	Alluminio / Aluminium			●	●	●
18	Rondella / Washer	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
19	Vite / Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
20	Anello protezione albero / Guard ring	Gomma NBR / Rubber (NBR)	●		●	●	
21	Cavallotto / U-Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
	Vite / Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304	●	●			
22	Cavallotto / U-Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304					●
	Anello distanziale / Spacing ring	Acciaio Inox AISI 304 / Stainless Steel AISI 304		●	●	●	
23	Anello Seeger / Seeger ring	Acciaio Inox AISI 304 / Stainless Steel AISI 304		●	●	●	
	Cuscinetto / Ball bearing	Commerciale / Commercial					●
24	Chiavetta / Flat key	Acciaio Inox AISI 304 / Stainless Steel AISI 304	●				
25	Flangia tipo MID / MID flange	Alluminio / Aluminium			●	●	●
26	Vite / Bolt	Acciaio / Steel			●	●	●
27	Giunto pompa / Pump coupling	Acciaio / Steel			●	●	●
28	Vite / Bolt	Acciaio / Steel			●	●	●
29	Manicotto di collegamento / Box coupling	Nylon / Nylon			●	●	●
30	Giunto motore / Motor coupling	Acciaio / Steel			●	●	●
31	Motore orbitale / Orbital motor	Commerciale / Commercial			●	●	●
32	Anello di centraggio / Center ring	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
33	Chiavetta / Flat key	Acciaio / Steel			●	●	●
34	Rondella / Washer	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
35	Vite / Bolt	Acciaio Inox AISI 304 / Stainless Steel AISI 304			●	●	●
36	Anello Seeger SB 50 int. / Seeger ring SB 50 int.	Acciaio / Steel			●		

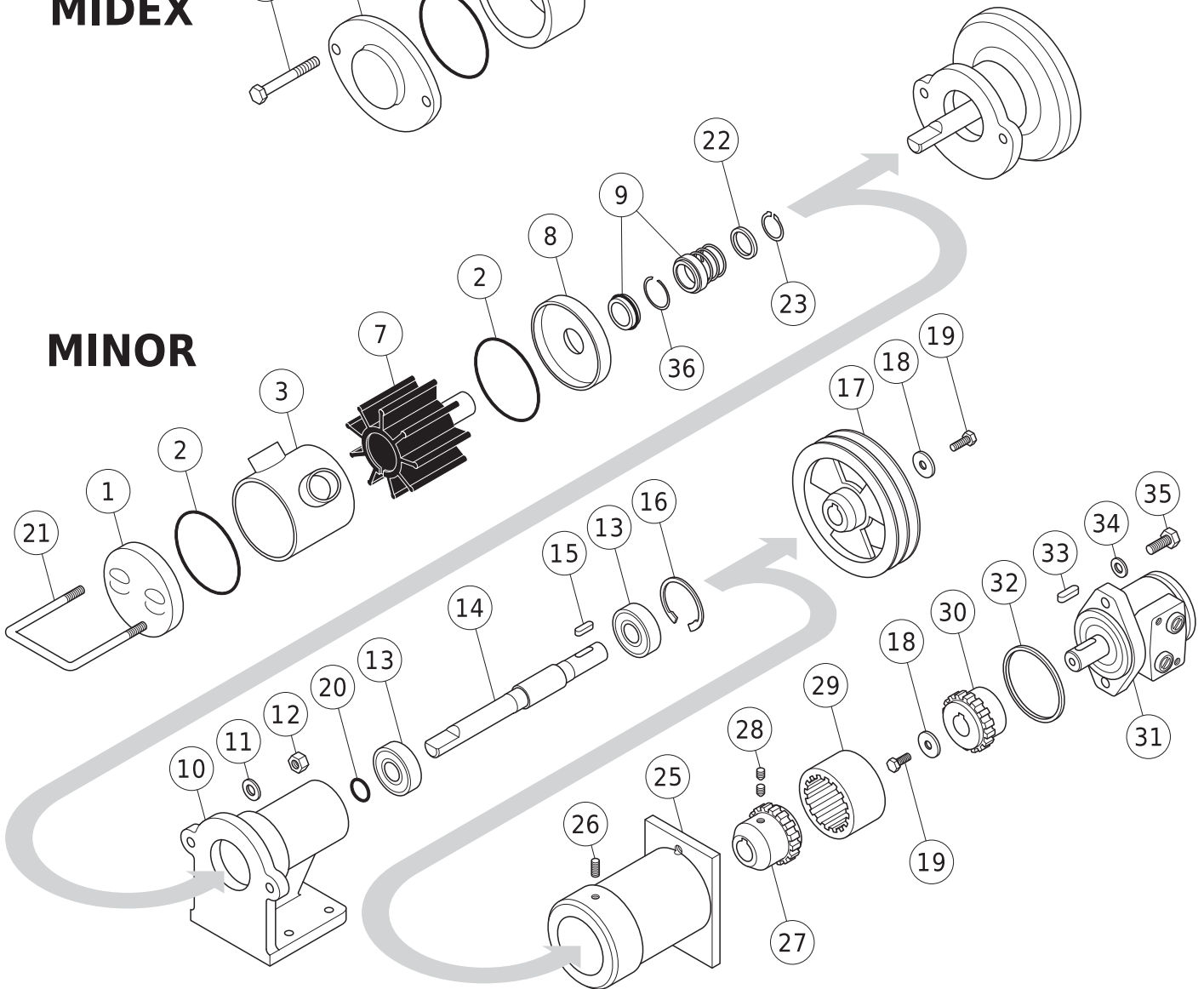
MINI



MIDEX



MINOR



MAJOR

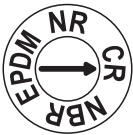
Exploded view diagram of a motor assembly with 35 numbered parts. The diagram shows the motor housing, fan, pulley, and various internal components like gears and bearings. A large grey arrow indicates the assembly sequence from left to right.

MAXI

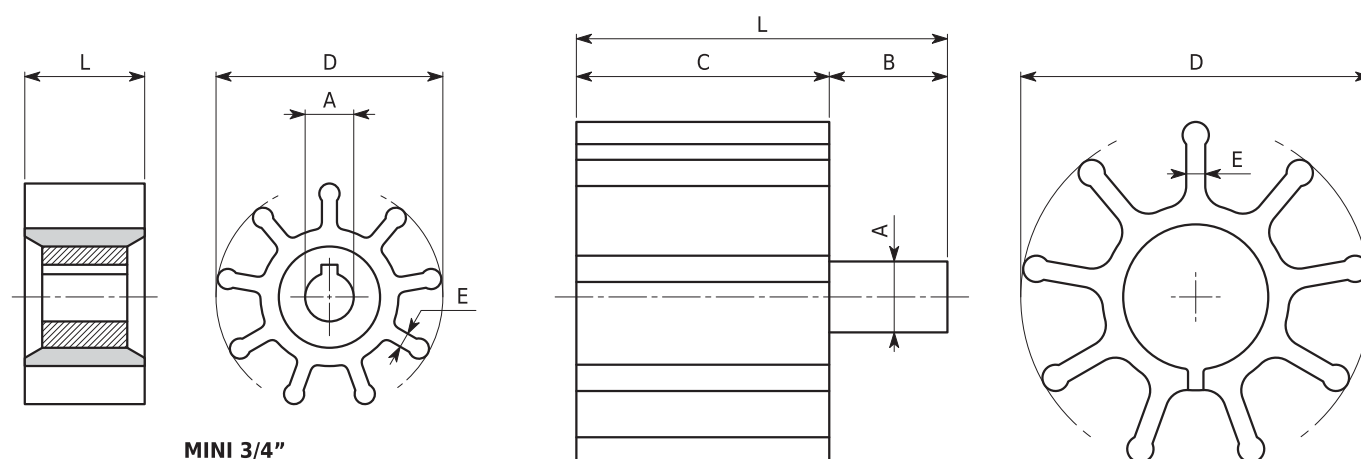
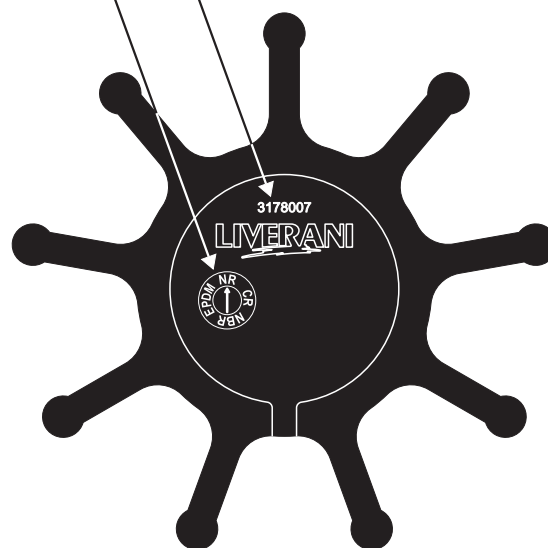
This exploded view diagram illustrates the assembly of the MAXI motor. The components are numbered 1 through 35. The assembly sequence is indicated by a grey arrow starting from the motor housing (10) and ending at the final assembled unit. The parts include:

- 1: End plate with mounting holes
- 2: O-ring
- 3: Motor housing
- 7: Cooling fan
- 8: End plate with mounting holes
- 9: Spring
- 10: Motor housing
- 11: Nut
- 12: Washer
- 13: O-ring
- 14: Shaft
- 15: Washer
- 16: O-ring
- 17: Pulley
- 18: Nut
- 19: Washer
- 20: Motor housing
- 21: Nut
- 22: Washer
- 23: O-ring
- 24: Motor housing
- 25: Motor housing
- 26: Nut
- 27: Gear
- 28: Washer
- 29: Gear
- 30: Gear
- 31: Motor housing
- 32: O-ring
- 33: Washer
- 34: Nut
- 35: Motor housing

Identificazione e dimensione della girante Identification and impeller dimensions

Riferimento materiale girante Impeller's material reference		
		NBR Nitrile Nitrile
		CR Neoprene Neoprene rubber
		EPDM EPDM EPDM
		NR Gomma naturale Natural rubber
		VMQ Silicone Silicon

Riferimento pompa Pump reference	
MINI 3/4"	n.d. / n.a.
MIDEX 1"1/4	3173007
MINOR 40	3174007
MAJOR 60	3176007
MAXI 80	3178007



MINI 3/4"

MIDEX 1"1/4 - MINOR 40 - MAJOR 60 - MAXI 80

Tipo Type	A	B	C	D	E	L	Nr. pale Nr. blades
MINI 3/4"	Ø 12	-	29.6	Ø 56	4	29.6	8
MIDEX 1"1/4	Ø 24.8	35	52	Ø 66.5	5	87	8
MINOR 40	Ø 24.8	35	87	Ø 98	5.5	122	9
MAJOR 60	Ø 30	57	107	Ø 146	7	164	9
MAXI 80	Ø 30	44	144	Ø 196	10	188	9